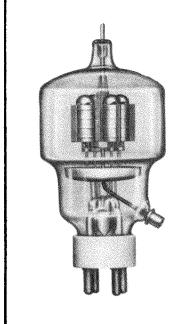
# EITEL-McCULLOUGH, INC. SAN BRUNO, CALIFORNIA

MEDIUM-MU TRIODE

MODULATOR **OSCILLATOR** AMPLIFIER

#### GENERAL CHARACTERISTICS

<b></b> 1	_,,,,	••••		•••		•					
ELECTRICAL											
Filament: Thoriated tung Voltage Current	sten  						-	5.0 25.0	or or	10.0 12.5	volts amperes
Amplification Factor (Av	erage)	-	-	-	-	-	-	-	-		20
Direct Interelectrode Capacitances (Average)											
Grid-Plate - Grid-Filament Plate-Filament Transconductance ( $I_{b}$ =1. Frequency for Maximum	 0 amp.	, <b>E</b> թ։	-	- 000	-	- =-	- 40)	-	- -	•	10.2 μμf 13.5 μμf 0.7 μμf ) μmhos 40 mc
MECHANICAL											
Base Basing Maximum Overall Dimen		- -	-	-	-	-	Sp				o. 5000B ype 4BC
Length Diameter - Net weight	 	-	- - -	- - -	- - -	- -	- - -			7.625 3.563 12	inches inches ounces
Shipping weight (Average	e) -	-	-	-	-	-	-	-	-	3.0	pounds



## AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR Class B

		TYPICAL	OPERATION-	MAX. RATING	
D-C Plate Voltage	-	1500	2000	3000	3000 volts
MaxSignal D-C Plate Current, per tube* -	-	•	•	•	900 <b>m</b> a.
Plate Dissipation, per tube*	-	•	•	•	300 watts
D-C Grid Voltage (approx.)	-	-65	<del>-9</del> 0	<b>–</b> 150	volts
Peak A-F Grid Input Voltage	-	330	350	420	volts
Zero-Signal D-C Plate Current	-	267	200	134	ma.
MaxSignal D-C Plate Current	-	1066	900	667	ma.
MaxSignal Driving Power (approx.)	-	17	12	6	watts
Effective Load, Plate-to-Plate	-	2840	4820	10200	ohms
MaxSignal Plate Power Output	-	1000	1200	1400	watts
*Averaged over any sinusoidal audio frequency cycle.					

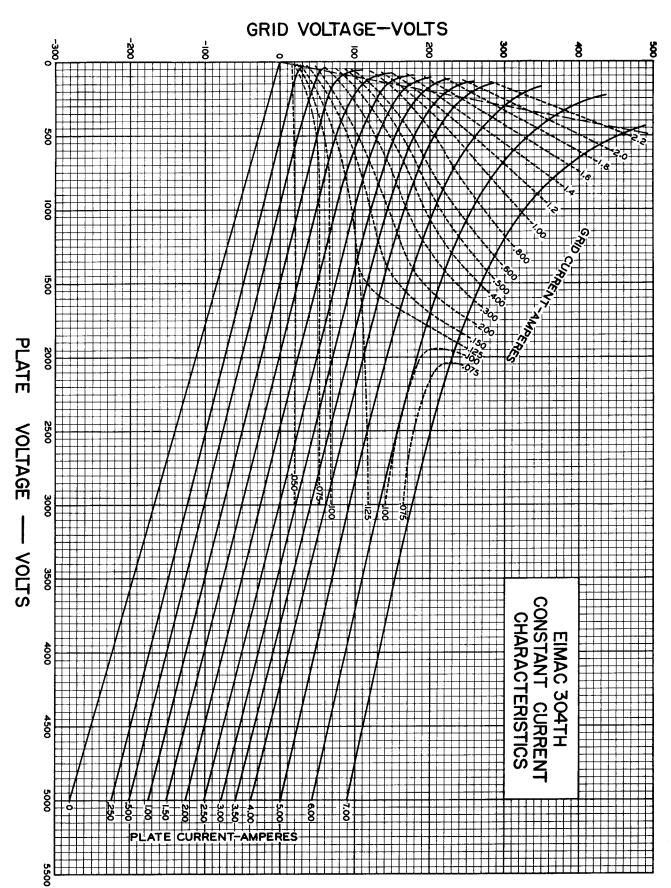
### RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR

Class-C \*Telegraphy
(Key down conditions without modulation)

									TYPICAL	OPERATION-	-1 TUBE	MAX. R	ATING
D-C Plate Voltage	_	-	-	_	-	-	-	-	1500	2000	3000	3000	volts
D-C Plate Current	-	-	-	-	-	-	-	-	667	600	500	900	ma.
D-C Grid Current	-	-	-	-	-	-	-	-	115	125	135	170	ma.
D-C Grid Voltage	-	-	-	-	-	-	-	-	-125	-200	-300		volts
Plate Power Output	-	-	-	-	-	-	-	-	700	900	1200		watts
Plate Input	-	-	-	-	-	-	-	-	1000	1200	1500		watts
Plate Dissipation -	-	-	-	-	_	-	-	-	300	300	300	300	watts
Peak R. F. Grid Inpu	t V	'olta	ge,	(ap	pro	x.)	-	-	250	325	395		volts
Driving Power, (app	rox	:.)	-	-	-	-	-	-	25	39	53		watts

<sup>\*</sup>The above figures show actual measured tube performance, and do not allow for variations in circuit losses.







# DRIVING POWER vs. POWER OUTPUT

The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 1500, 2000 and 3000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by  $P_{\rm p}$ .

Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 1500, 2000, and 3000 volts respectively.

